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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,105	04/09/2004	Joon-Ho Byun	678-1292 (P11276)	1715
28249	7590	09/20/2005	EXAMINER	
DILWORTH & BARRESE, LLP 333 EARLE OVINGTON BLVD. UNIONDALE, NY 11553			LE, HOANGANH T	
			ART UNIT	PAPER NUMBER
			2821	

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/822,105

Applicant(s)

BYUN ET AL.

Examiner

HoangAnh T. Le

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,4-8 and 10-13 is/are rejected.
- 7) ☒ Claim(s) 2,3 and 9 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


Hoanganh Le
Primary Examiner

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

1. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Atkins (the US Patent No. 3,593,073) or McGirr et al (the US Patent No. 5,231,407).

The Atkins reference teaches in figure 7 an internal antenna device of a portable wireless terminal comprising: a shield plate 16 connected to a ground 30 provided on an inner surface portion of the portable wireless terminal, the ground being coated with conductive material; an antenna plate 14 positioned adjacent to the inner surface portion of the portable wireless terminal (figure 1), facing the shield plate at a predetermined distance (figure 7); and a carrier 15 interposed between the shield plate 16 and the antenna plate 14 (figure 7).

4. Claims 1, 5, 7, 8, 10, 12, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by McGirr et al (the US Patent No. 5,231,407).

The McGirr et al reference teaches in figures 1 and 2 an internal antenna device of a portable wireless terminal comprising: a shield plate 40 connected to a ground provided on an inner surface portion 13 of the portable wireless terminal 19, the ground being coated with conductive material (figure 2 and col. 4 lines 50-51); an antenna plate 20,30 positioned adjacent to the inner surface portion of the portable wireless terminal (figure 2), facing the shield plate at a predetermined distance (figure 2); and a carrier 44 interposed between the shield plate 42 and the antenna plate 20,30 (figure 2). The antenna plate 20 electrically connected with the shield plate 42 through a conductor 22. The antenna plate improves a specific absorption ratio during operation of the portable wireless terminal (col. 5, lines 32-46). Figure 1 shows the shield plate and the antenna plate installed in an antenna device receiving recess.

5. Claims 1,4-8, and 10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Pedersen et al (the US Patent No 5,952,975).

The Pedersen et al reference teaches in figure 4 an internal antenna device of a portable wireless terminal comprising: a shield plate 6 connected to an inherent ground provided on an inner surface portion of the portable wireless terminal 1, the ground being coated with conductive material; an antenna plate 5 positioned adjacent to the inner surface portion of the portable wireless terminal (figure 4), facing the shield plate at a predetermined distance (figure 4); and a carrier 8 interposed between the shield plate 6 and the antenna plate 5 (figure 4). A conductor 7, wherein the antenna plate is integrally formed at one end of the conductor, which extends from one side edge of the shield plate and is perpendicular thereto (col. 2, lines 64-67). The antenna plate 5

Art Unit: 2821

electrically connected with the shield plate 6 through a conductor 7. The carrier 8 is made of an insulating material. The antenna plate improves a specific absorption ratio during operation of the portable wireless terminal (col. 3, lines 12-39). Figure 4 shows the shield plate and the antenna plate installed in an antenna device receiving recess.

Allowable Subject Matter

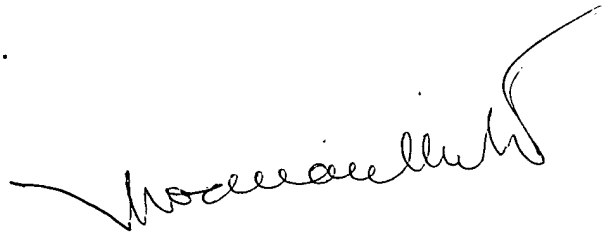
6. Claims 2-3 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter: None of the cited art discloses one or more fastening pieces, and fastening holes formed at ends of the fastening pieces, respectively, wherein the fastening pieces are connected to the ground.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HoangAnh T. Le whose telephone number is (571) 272-1823. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Hoanganh Le', with a long, sweeping horizontal line extending to the left.

Hoanganh Le
Primary Examiner